



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/744,167

DATE: 02/21/2001  
TIME: 11:03:09

Input Set : A:\ES.txt  
Output Set: N:\CRF3\02212001\I744167.raw

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109 <211> LENGTH: 1323  
110 <212> TYPE: PRT  
111 <213> ORGANISM: Homo sapiens  
113 <400> SEQUENCE: 2  
114 Met Trp Ile Asp Glu Asn Ala Val Ala Glu Asp Gln Leu Ile Lys Arg  
115 1 5 10 15  
117 Asn Tyr Ser Trp Asp Asp Gln Cys Ser Ala Val Glu Val Gly Glu Lys  
118 20 25 30  
120 Lys Cys Gly Asn Leu Ala Cys Leu Pro Asp Glu Lys Asn Val Leu Val  
121 35 40 45  
123 Val Ala Val Met His Asn Cys Asp Lys Arg Thr Leu Gln Asn Asp Leu  
124 50 55 60  
126 Gln Asp Cys Asn Asn Tyr Asn Ser Gln Ser Leu Met Asp Ala Phe Ser  
127 65 70 75 80  
129 Cys Ser Leu Asp Asn Glu Asn Arg Gln Thr Asp Gln Phe Ser Phe Ser  
130 85 90 95  
132 Ile Asn Glu Ser Thr Glu Lys Asp Met Asn Ser Glu Lys Gln Met Asp  
133 100 105 110  
135 Pro Leu Asn Arg Pro Lys Thr Glu Gly Arg Ser Val Asn His Leu Cys  
136 115 120 125  
138 Pro Thr Ser Ser Asp Ser Leu Ala Ser Val Cys Ser Pro Ser Gln Leu  
139 130 135 140  
141 Lys Asp Asp Gly Ser Ile Gly Arg Asp Pro Ser Met Ser Ala Ile Thr  
142 145 150 155 160  
144 Ser Leu Thr Val Asp Ser Val Ile Ser Ser Gln Gly Thr Asp Gly Cys  
145 165 170 175  
147 Pro Ala Val Lys Lys Gln Glu Asn Tyr Ile Pro Asp Glu Asp Leu Thr  
148 180 185 190  
150 Gly Lys Ile Ser Ser Pro Arg Thr Asp Leu Gly Ser Pro Asn Ser Phe  
151 195 200 205  
153 Ser His Met Ser Glu Gly Ile Leu Met Lys Lys Glu Pro Ala Glu Glu  
154 210 215 220  
156 Ser Thr Thr Glu Glu Ser Leu Arg Ser Gly Leu Pro Leu Leu Lys  
157 225 230 235 240  
159 Pro Asp Met Pro Asn Gly Ser Gly Arg Asn Asn Asp Cys Glu Arg Cys  
160 245 250 255  
162 Ser Asp Cys Leu Val Pro Asn Glu Val Arg Ala Asp Glu Asn Glu Gly  
163 260 265 270  
165 Tyr Glu His Glu Glu Thr Leu Gly Thr Thr Glu Phe Leu Asn Met Thr  
166 275 280 285  
168 Glu His Phe Ser Glu Ser Gln Asp Met Thr Asn Trp Lys Leu Thr Lys  
169 290 295 300  
171 Leu Asn Glu Met Asn Asp Ser Gln Val Asn Glu Glu Lys Glu Lys Phe  
172 305 310 315 320  
174 Leu Gln Ile Ser Gln Pro Glu Asp Thr Asn Gly Asp Ser Gly Gly Gln  
175 325 330 335  
177 Cys Val Gly Leu Ala Asp Ala Gly Ile Asp Leu Lys Gly Thr Cys Ile  
178 340 345 350  
180 Ser Glu Ser Glu Glu Cys Asp Phe Ser Thr Val Ile Asp Thr Pro Ala

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181	355	360	365
183	Ala Asn Tyr Leu Ser Asn Gly Cys Asp Ser Tyr Gly Met Gln Asp Pro		
184	370	375	380
186	Gly Val Ser Phe Val Pro Lys Thr Leu Pro Ser Lys Glu Asp Ser Val		
187	385	390	395
189	400		
190	Thr Glu Glu Lys Glu Ile Glu Glu Ser Lys Ser Glu Cys Tyr Ser Asn		
192	405	410	415
193	Ile Tyr Glu Gln Arg Gly Asn Glu Ala Thr Glu Gly Ser Gly Leu Leu		
195	420	425	430
196	Leu Asn Ser Thr Gly Asp Leu Met Lys Lys Asn Tyr Leu His Asn Phe		
198	435	440	445
199	Cys Ser Gln Val Pro Ser Val Leu Gly Gln Ser Ser Pro Lys Val Val		
201	450	455	460
202	Ala Ser Leu Pro Ser Ile Ser Val Pro Phe Gly Gly Ala Arg Pro Lys		
204	465	470	475
205	480	490	495
207	Gln Pro Ser Asn Leu Lys Leu Gln Ile Pro Lys Pro Leu Ser Asp His		
208	500	505	510
210	Leu Gln Asn Asp Phe Pro Ala Asn Ser Gly Asn Asn Thr Lys Asn Lys		
211	515	520	525
213	Asn Asp Ile Leu Gly Lys Ala Lys Leu Gly Glu Asn Ser Ala Thr Asn		
214	530	535	540
216	Val Cys Ser Pro Ser Leu Gly Asn Ile Ser Asn Val Asp Thr Asn Gly		
217	545	550	555
219	Glu His Leu Glu Ser Tyr Glu Ala Glu Ile Ser Thr Arg Pro Cys Leu		
220	565	570	575
222	Ala Leu Ala Pro Asp Ser Pro Asp Asn Asp Leu Arg Ala Gly Gln Phe		
223	580	585	590
225	Gly Ile Ser Ala Arg Lys Pro Phe Thr Thr Leu Gly Glu Val Ala Pro		
226	595	600	605
228	Val Trp Val Pro Asp Ser Gln Ala Pro Asn Cys Met Lys Cys Glu Ala		
229	610	615	620
231	Arg Phe Thr Phe Thr Lys Arg Arg His His Cys Arg Ala Cys Gly Lys		
232	625	630	635
234	Val Phe Cys Ala Ser Cys Cys Ser Leu Lys Cys Lys Leu Leu Tyr Met		
235	645	650	655
237	Asp Arg Lys Glu Ala Arg Val Cys Val Ile Cys His Ser Val Leu Met		
238	660	665	670
240	Asn Ala Gln Ala Trp Glu Asn Met Met Ser Ala Ser Ser Gln Ser Pro		
241	675	680	685
243	Asn Pro Asn Asn Pro Ala Glu Tyr Cys Ser Thr Ile Pro Pro Leu Gln		
244	690	695	700
246	Gln Ala Gln Ala Ser Gly Ala Leu Ser Ser Pro Pro Pro Thr Val Met		
247	705	710	715
249	Val Pro Val Gly Val Leu Lys His Pro Gly Ala Glu Val Ala Gln Pro		
250	725	730	735
252	Arg Glu Gln Arg Arg Val Trp Phe Ala Asp Gly Ile Leu Pro Asn Gly		
253	740	745	750

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255 Gly Thr Leu Ala Val Ser His Asp Pro Val Lys Pro Val Thr Thr Ser  
 256 755 760 765  
 258 Pro Leu Pro Ala Glu Thr Asp Ile Cys Leu Phe Ser Gly Ser Ile Thr  
 259 770 775 780  
 261 Gln Val Gly Ser Pro Val Gly Ser Ala Met Asn Leu Ile Pro Glu Asp  
 262 785 790 795 800  
 264 Gly Leu Pro Pro Ile Leu Ile Ser Thr Gly Val Lys Gly Asp Tyr Ala  
 265 805 810 815  
 267 Val Glu Glu Lys Pro Ser Gln Ile Ser Val Met Gln Gln Leu Glu Asp  
 268 820 825 830  
 270 Gly Gly Pro Asp Pro Leu Val Phe Val Leu Asn Ala Asn Leu Leu Ser  
 271 835 840 845  
 273 Met Val Lys Ile Val Asn Tyr Val Asn Arg Lys Cys Trp Cys Phe Thr  
 274 850 855 860  
 276 Thr Lys Gly Met His Ala Val Gly Gln Ser Glu Ile Val Ile Leu Leu  
 277 865 870 875 880  
 279 Gln Cys Leu Pro Asp Glu Lys Cys Leu Pro Lys Asp Ile Phe Asn His  
 280 885 890 895  
 282 Phe Val Gln Leu Tyr Arg Asp Ala Leu Ala Gly Asn Val Val Ser Asn  
 283 900 905 910  
 285 Leu Gly His Ser Phe Phe Ser Gln Ser Phe Leu Gly Ser Lys Glu His  
 286 915 920 925  
 288 Gly Gly Phe Leu Tyr Val Thr Ser Thr Tyr Gln Ser Leu Gln Asp Leu  
 289 930 935 940  
 291 Val Leu Pro Thr Pro Pro Tyr Leu Phe Gly Ile Leu Ile Gln Lys Trp  
 292 945 950 955 960  
 294 Glu Thr Pro Trp Ala Lys Val Phe Pro Ile Arg Leu Met Leu Arg Leu  
 295 965 970 975  
 297 Gly Ala Glu Tyr Arg Leu Tyr Pro Cys Pro Leu Phe Ser Val Arg Phe  
 298 980 985 990  
 300 Arg Lys Pro Leu Phe Gly Glu Thr Gly His Thr Ile Met Asn Leu Leu  
 301 995 1000 1005  
 303 Ala Asp Phe Arg Asn Tyr Gln Tyr Thr Leu Pro Val Val Gln Gly Leu  
 304 1010 1015 1020  
 306 Val Val Asp Met Glu Val Arg Lys Thr Ser Ile Lys Ile Pro Ser Asn  
 307 1025 1030 1035 1040  
 309 Arg Tyr Asn Glu Met Met Lys Ala Met Asn Lys Ser Asn Glu His Val  
 310 1045 1050 1055  
 312 Leu Ala Gly Gly Ala Cys Phe Asn Glu Lys Ala Asp Ser His Leu Val  
 313 1060 1065 1070  
 315 Cys Val Gln Asn Asp Asp Gly Asn Tyr Gln Thr Gln Ala Ile Ser Ile  
 316 1075 1080 1085  
 318 His Asn Gln Pro Arg Lys Val Thr Gly Ala Ser Phe Phe Val Phe Ser  
 319 1090 1095 1100  
 321 Gly Ala Leu Lys Ser Ser Ser Gly Tyr Leu Ala Lys Ser Ser Ile Val  
 322 1105 1110 1115 1120  
 324 Glu Asp Gly Val Met Val Gln Ile Thr Ala Glu Asn Met Asp Ser Leu  
 325 1125 1130 1135  
 327 Arg Gln Ala Leu Arg Glu Met Lys Asp Phe Thr Ile Thr Cys Gly Lys

VERIFICATION SUMMARY  
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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number